

Notice of Allowability

Application No.

10/791,596

Examiner

Theresa Trieu

Applicant(s)

KRAYER, WILLIAM L.

Art Unit

3748

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

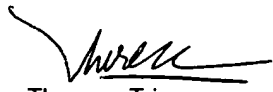
1. ☒ This communication is responsive to the interview and amendment filed on 09/21/06 and 07/12/06.
2. ☒ The allowed claim(s) is/are 1-12 and 16-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date Sept. 21, 2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Theresa Trieu
Primary Examiner
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EXAMINER'S AMENDMENT

This Office Action is responsive to the applicant's interview filed on September 21, 2006 and July 12, 2006

Claims 15 and 21-23 have been canceled. Thus, claims 1-14 and 16-20 are pending in this application.

Claims

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William L. Kraye on September 21, 2006. During telephone conversation with Mr. Kraye, an agreement was reached to amend claims 12 and 19 and cancel claims 13 and 14. Accordingly, claims 1-12 and 16-20 are pending in this application.

The application has been amended as follows:

Claim 12. (*Currently amended*)

-- A turntable for manual turning, said turntable being in the shape of a Reuleaux triangle and having a gerotor attached thereto, said gerotor having three substantially identical lobes, ~~[at least one of said turntable and]~~ said gerotor having a substantially planar bearing surface ~~[thereon.]~~ on its underside for interfacing with a substantially planar gerotor guide bearing. --

Claim 19. (*Currently amended*)

-- Turntable apparatus of claim 18 wherein [~~at least one of said gerotor and~~] said gerotor guide has a substantially planar bearing surface [~~thereon~~] on its underside. --

Allowable Subject Matter

Claims 1-12 and 16-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1: the prior art fails to disclose or render obvious the claimed combination including: an internal gerotor guide profile expanded by a dimension g from a geometric figure satisfying the hypocycloid parametric equations $x = 0.25R \cdot \cos \theta + 0.75R \cdot \cos \theta/3$ and $y = 0.25R \cdot \sin \theta - 0.75R \cdot \sin \theta/3$ where θ is the angle of the center of a small circle with respect to the center of a large circle within which said small circle is rotated while remaining in contact with said large circle, g is a number from $0.1R$ to $0.5R$ and R is the radius of the large circle in the hypocycloid.

Regarding claim 8: the prior art fails to disclose or render obvious the claimed combination including: the turntable having three apexes, a top and an underside and having a width W ; a gerotor fixed to the underside of said turntable; and a gerotor guide, said gerotor being situated within said gerotor guide so that the center of said gerotor revolves around the center of said gerotor guide as it is moved within said gerotor guide, said centers being a distance $0.0773W$ apart, whereby said apexes of said turntable describe a substantially square area as they are turned, said turntable apparatus including at least one substantially planar bearing surface for forming a bearing interface.

Regarding claim 12: the prior art fails to disclose or render obvious the claimed combination including: gerotor having three substantially identical lobes being attached to the

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turntable having a Reuleaux triangle; said gerotor having a substantially planar bearing surface on its underside for interfacing with a substantially planar gerotor guide bearing.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Theresa Trieu whose telephone number is 571-272-4868. The examiner can normally be reached on Monday-Friday 8:30am- 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT
September 21, 2006


Theresa Trieu
Primary Examiner
Art Unit 3748